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Job No.: CTCE/BBMP/W.No.06/NN/CEMENT/2014-15 Date: 10.07.2014

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
AGENCY	:	**Mr. N. Narasimhaiah,** Contractor, Bangalore.
NAME OF THE WORK	:	Reserve fund to Emergency work in Ward No.06, Byatarayanapura Sub Division, BBMP, Bangalore.
REFERENCE	:	EE/BTP/BBMP/E-PMT/603/2013-14 Dated: 04.03.2014
SAMPLE ID	:	CEMENT
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 1989-2013
1	Standard Consistency	IS-4031 (Part -4)	29.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5)	155 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	485 Minutes	Not More than 600 Minutes
3	Soundness by the Le-Chatelier method	IS-4031 (Part 3)	1 mm	Not more than 10 mm

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Job No.: CTCE/BBMP/W.No.06/NN/SAND/2014-15 : 10.07.2014

TEST REPORT ON FINE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

Agency : **Mr. N. Narasimhaiah,** Contractor, Bangalore.

Name of Work : Reserve fund to Emergency work in Ward No.06, Byatarayanapura Sub Division, BBMP, Bangalore.

Reference : EE/BTP/BBMP/E-PMT/603/2013-14 Dated: 04.03.2014

Date of Testing : 10.07.2014

Material : Sand Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	50	5.00	5.00	95.0	90-100
2.36	158	15.80	20.80	79.2	75-100
1.18	189	18.90	39.70	60.3	55-90
600 Micron	225	22.50	62.20	37.8	35-59
300 Micron	190	19.00	81.20	18.8	8-30
150 Micron	135	13.50	94.70	5.3	0-10

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Job No.: CTCE/BBMP/W.No.06/NN/AGG/2014-15 : 10.07.2014

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

Agency : **Mr. N. Narasimhaiah,** Contractor, Bangalore.

Name of Work : Reserve fund to Emergency work in Ward No.06, Byatarayanapura Sub Division, BBMP, Bangalore.

Reference : EE/BTP/BBMP/E-PMT/603/2013-14 Dated: 04.03.2014

Date of Testing : 10.07.2014

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **10000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	325	3.25	3.25	96.75	95-100
20	6025	60.25	63.50	36.50	30-70
10	2000	20.00	83.50	16.50	10-35
4.75	1185	11.85	95.35	4.65	0-5

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Job No.: CTCE/BBMP/W.No.06/NN /STEEL/2014-15 10.07.2014

TEST REPORT ON REINFORCEMENT STEEL

Client	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Agency	:	**Mr. N. Narasimhaiah,** Contractor, Bangalore.
Name of the Work	:	Reserve fund to Emergency work in Ward No.06, Byatarayanapura Sub Division, BBMP, Bangalore.
Reference	:	EE/BTP/BBMP/E-PMT/603/2013-14 Dated: 04.03.2014
Date of Test	:	10.07.2014
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	10	0.62	513	556	13.20	O.K	O.K

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Job No.: CTCE/BBMP/W.No.06/NN/CUBE/2014-15

10.08.2014

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
Agency	: **Mr. N. Narasimhaiah,** Contractor, Bangalore.
Name of the work	: Reserve fund to Emergency work in Ward No.06, Byatarayanapura Sub Division, BBMP, Bangalore.
Reference	: EE/BTP/BBMP/E-PMT/603/2013-14 Dated: 04.03.2014
Sample ID	: Drain Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	13.07.2014	10.08.2014	8.135	350.9	15.60
2	13.07.2014	10.08.2014	8.250	365.4	16.24
3	13.07.2014	10.08.2014	8.315	370.6	16.47

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Agency	: **Mr. N. Narasimhaiah,** Contractor, Bangalore.
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Reference	: EE/BTP/BBMP/E-PMT/603/2013-14 Dated: 04.03.2014
Sample ID	: Drain Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.07.2014	13.08.2014	8.130	475.6	21.14
2	16.07.2014	13.08.2014	8.289	492.3	21.88
3	16.07.2014	13.08.2014	8.330	510.3	22.68

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Sample ID	: Drain Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.07.2014	13.08.2014	8.288	480.5	21.36
2	16.07.2014	13.08.2014	8.319	502.6	22.34
3	16.07.2014	13.08.2014	8.415	518.3	23.04

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Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.07.2014	13.08.2014	8.110	476.2	21.16
2	16.07.2014	13.08.2014	8.273	510.6	22.69
3	16.07.2014	13.08.2014	8.310	525.4	23.35

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